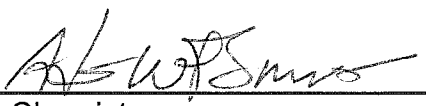
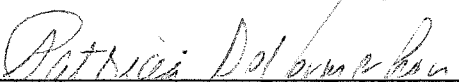


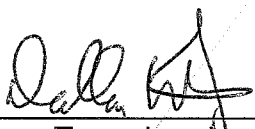
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Revision <u>0.2</u> <u>2/K 9-18-08</u>	Effective Date : 30 days after authorizing signature	Replaces: N/A


STANDARD OPERATING PROCEDURE FOR THE
EXTRACTION TECHNIQUE OF TOWELETTE SAMPLES

APPROVALS

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Lead QA Coordinator (Date)
Analytical Chemistry Branch

Approved by:  8/6/08
Team Leader (Date)
Analytical Chemistry Branch

Authorized by:  8/11/08
Chief (Date)
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1.0 BACKGROUND

The Office of Pesticide Programs (OPP) has initiated the Antimicrobial Testing Program (ATP) to analyze the efficacy and active ingredient label claims of products that are used as hospital disinfectants. The Analytical Chemistry Branch is tasked with analyzing various antimicrobial formulations for their active ingredients listed on their labels. One type of sample is a towelette that has been soaked in a solution of an antimicrobial product. Since the percentage of active ingredient that adheres to the towelette is dependent on the type of towelette and the active ingredient, the most consistent way of analyzing towelettes is to analyze the expressed liquid.

2.0 SCOPE AND PURPOSE

This technique is for the extraction of liquid from towelette samples for the Antimicrobial Testing Program and other projects. The technique is applicable to towelettes that have been soaked in a solution of an antimicrobial formulation.

3.0 PROCEDURE

APPARATUS AND REAGENTS

- 1) 50 mL or larger syringe
- 2) Appropriate Volumetric flask(s)

SAMPLE PREPARATION

Remove plunger from syringe and loosely fill with several towelettes. Re-insert plunger and squeeze liquid from towelette into an appropriate size, tared volumetric flask. The collected expressed liquid is weighed by difference on an analytical balance. Repeat until a sufficient quantity of sample is obtained for analyses. Dilute to volume with appropriate solvent for prescribed method of analysis. Analyze a portion of expressed liquid for compound of interest.

The method for analysis is then followed for the appropriate analyte using the expressed liquid.

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REPORTING RESULTS

The percent active ingredient is calculated and reported based on the weight of the expressed liquid.

4.0 NONCONFORMANCE AND CORRECTIVE ACTION

Permission to make significant modifications to the SOP must be approved by the Team Leader and/or the Branch Chief. Customer will be informed at the time of decision to make significant modifications, and changes will be documented in lab notebook. Equivalent equipment and supplies do not need approval.

5.0 HEALTH AND SAFETY

The analyst needs to follow normal safety precautions for handling toxic chemicals, and flammable solvents.

6.0 PERSONNEL QUALIFICATIONS

The analyst needs to know general laboratory techniques.

7.0 ENVIRONMENTAL MANAGEMENT SYSTEMS

The analyst needs to know and follow the ESC EMS policies and procedures.

8.0 REFERENCES

N/A

9.0 ATTACHMENTS

N/A